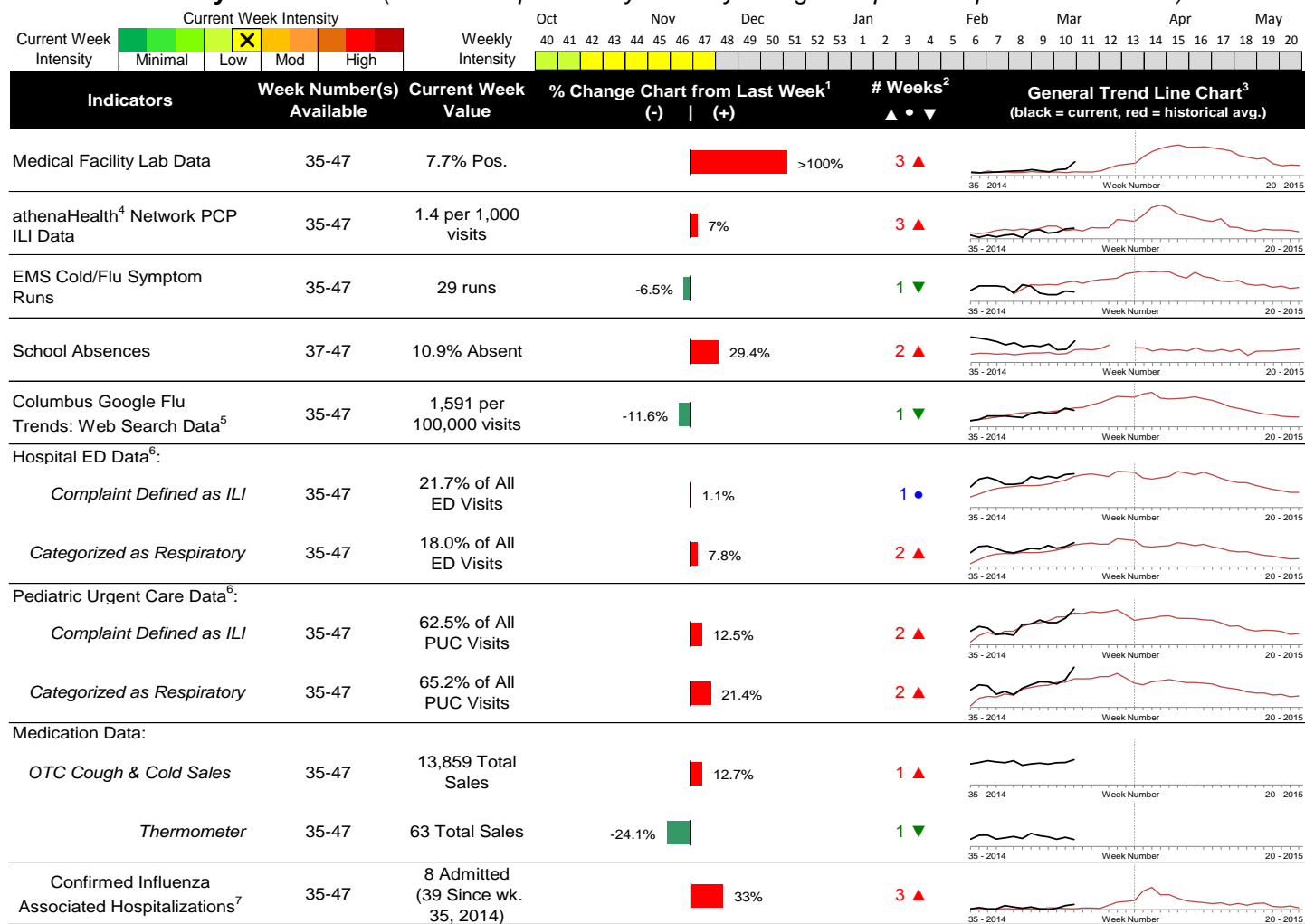


2014-2015 Columbus & Franklin County Seasonal Influenza Activity Weekly Summary (Week 47, Nov. 16th – Nov. 22nd, 2014)

Highlights

- In week 47 of 2014, the majority of local influenza activity indicators increased compared to last week. Notable increases include flu lab positives and pediatric urgent care visits for influenza-like-illness and respiratory symptoms.
- Geographic activity and local intensity designation (Click [here](#) for definitions) = LOCALIZED, LOW
- Local medical facility labs reported 762 tests run with 59 (7.7%) positive results for week 47 of 2014.
- The percentage of ED visits for influenza-like-illness (ILI) was stable, while respiratory symptom visits increased slightly compared to last week. The percentage of ED visits for both ILI and respiratory symptoms are slightly higher than their baseline averages.
- The local over-the-counter medication sale trends were mixed (increase in cough and cold, electrolyte, and chest rub sales; decrease in thermometer, adult anti-fever, and pediatric anti-fever sales; stable throat lozenge sales) compared to last week.
- Updated National influenza activity for week 47 was not available at the time of this report. Please [visit the CDC website for specific information](#) (National data is usually updated on Friday of each week).

Local Flu Activity Dashboard (All data are preliminary and may change as updated reports are received.)



Reportable Conditions (Cumulative Numbers as of Nov. 25, 2014, 2:00 PM)	2009	2010	2011	2012	2013	2014 YTD
Pediatric Influenza Associated Death Reported by Year (based on date of death)	2	0	0	0	0	0
Influenza Associated Hospitalizations (IAH) Reported by Admission Year ⁷	523	35	266	394	300	462
IAH comparison by Season (October - May or Weeks 35 - 20)	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15
Current season (2014-15) is from week 35 through 47	458	286	95	512	490	39

¹Interpret with caution. Indicators with small numbers subject to large weekly percentage fluctuations.

²Number of weeks "▲" = Increase (>2%), "▼" = Decrease (>2%), "•" = Stable (-2% to +2%).

³Black line is current years data. Based on data availability, red line is historical average (excluding pandemic year).

⁴Data Source: athenaHealth, Inc. and their analytics and research team athenaResearch (www.athenahealth.com). Rate of ILI visits to Franklin County, OH, athenaHealth network's primary care practices/physicians using claims data.

⁵Data Source: Google Flu Trends (www.google.org/flutrends), City = Columbus, OH. See website for additional details.

⁶Franklin County, OH residents only (based on zipcode).

⁷Confirmed cases only. Based on jurisdiction equal to Franklin County or City of Columbus and admission date available in ODRS.

CDC 122-Cities Mortality Reporting System: Pneumonia and Influenza (P&I) Mortality

In week 47 of 2014, 3.9% of all Columbus deaths were attributed to pneumonia and influenza (Figure 1). Updated National pneumonia and influenza mortality data was not available at the time of this report.

Influenza Morbidity and Influenza-Like Illness (ILI) Reports

In week 47, the preliminary local influenza-like-illness (ILI) visit rate (1.4 per 1,000 visits) to athenaHealth providers was higher than the previous week and is slightly higher than the baseline average for the week (Figure 1). The week 47 percentage of Emergency Department (ED) visits for ILI symptoms was stable compared to the previous week (Figure 3) and is slightly higher than the historic baseline for this week. Pediatric urgent care visits for ILI symptoms increased compared to the previous week and is similar to its historic baseline for the week.

Updated National influenza-like illness data from the Outpatient Influenza-like Illness Surveillance Network (ILINet) was not available at the time of this report.

Laboratory Surveillance

During week 47 of 2014, reporting Franklin County sentinel medical facility laboratories tested 762 specimens, with 59 (7.7%) positive (Figure 4). The total number of tests done by local reporting labs from week 35 of 2012 through week 47 of 2014 is 6,572 with 139 (2.1%) positives (108 type A, 26 type B, 4 both A and B, 1 type unknown). Updated National influenza lab data from the WHO and NREVSS laboratories was not available at the time of this report (visit the CDC website for more info). The last available 3 weeks national breakdown (as of 11/21/2014) by type and subtype from CDC is shown in Table 1 below:

Table 1: U.S. Virologic Surveillance (WHO and NREVSS participating labs)

Week	A Total	A (H1)	A 2009 H1N1	A (H3)	A (H3N2v)	A (unable to sub-type)	A (Subtyping not performed)	B Total	Total # Tested	% Positive
44	521 (80.5%)	0 (0%)	1 (0.2%)	232 (44.5%)	0 (0%)	0 (0%)	288 (55.3%)	126 (19.5%)	10415	6.21
45	822 (85.8%)	0 (0%)	4 (0.5%)	337 (41%)	0 (0%)	0 (0%)	481 (58.5%)	136 (14.2%)	11125	8.61
46	836 (87.5%)	0 (0%)	0 (0%)	257 (30.7%)	0 (0%)	0 (0%)	579 (69.3%)	119 (12.5%)	10304	9.26

ODH lab reported results for Ohio cases that are PCR positive for seasonal influenza Positive results: (1) A/PdH1N1; (5) A/H3N2 (through 11/15/14).

ED and Pediatric Urgent Care Respiratory Visits

In the 47th week of 2014, the percentage of all ED visits categorized as *respiratory* increased compared to the percentage seen the previous week and is similar to its historic baseline for this week (Figure 5). Pediatric urgent care visits for respiratory symptoms increased substantially compared to the previous week and is higher than its historic baseline for the week.

Over-the-Counter (OTC) Medication Sales and Antiviral Prescriptions

In week 47 of 2014, trends for the local over-the-counter medication sales were mixed (increase in cough and cold, electrolyte, and chest rub sales; decrease in thermometer, adult anti-fever, and pediatric anti-fever sales; stable throat lozenge sales) compared to last week.

Additional Influenza Activity Web Links:

Ohio Seasonal Flu Surveillance: <http://www.odh.ohio.gov/features/odhfeatures/seasflu/ohfluactivity.aspx>

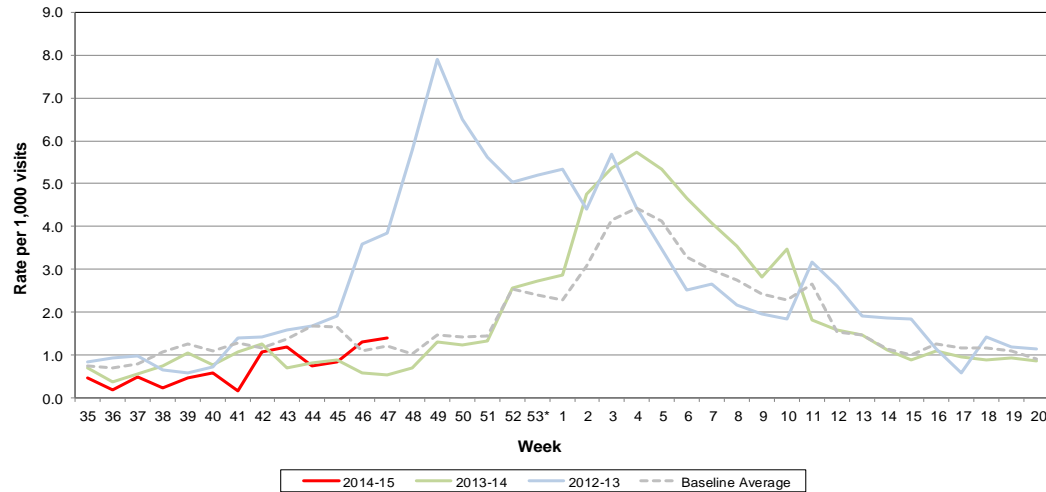
CDC National Seasonal Flu Surveillance Reports: <http://www.cdc.gov/flu/weekly/>

CDC International Flu Activity Map: <http://www.cdc.gov/flu/international/activity.htm>

World Health Organization Situation Updates: http://www.who.int/influenza/surveillance_monitoring/en/

Columbus & Franklin County Influenza Monitoring Summary – Week 47, 2014 (11/16/2014-11/22/2014)

Figure 1: athenahealth Network Primary Care Physician Influenza-Like-Illness Visit Rate†, Franklin County, OH



†Source: Claims data from athenahealth, Inc. and their analytics and research team, athenaResearch (www.athenahealth.com/blog/category/analytics-research)
Note: athenaHealth claims data are subject to filing and processing time lags. Historical data are updated when they are received.

Figure 2: Percentage of Local and National ILI Outpatient CDC Sentinel Health Care Provider Site visits, 2014-15

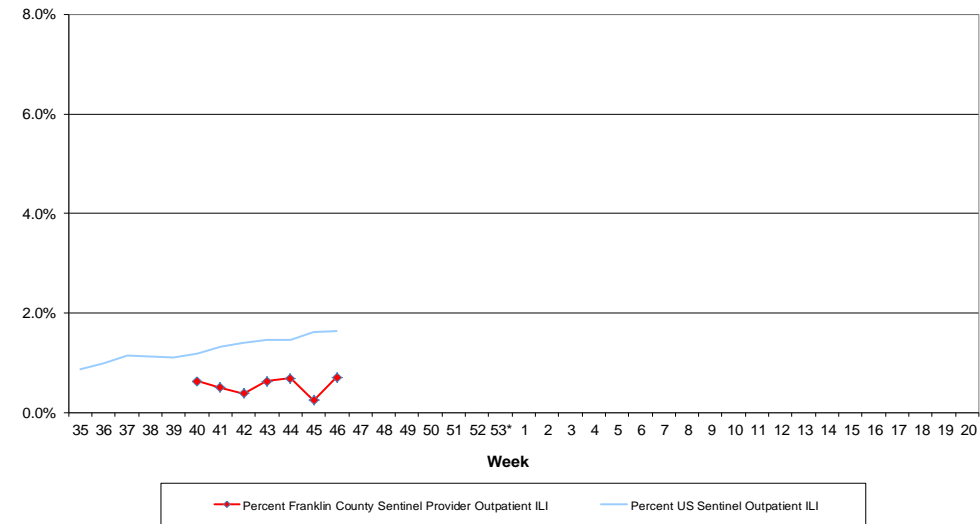
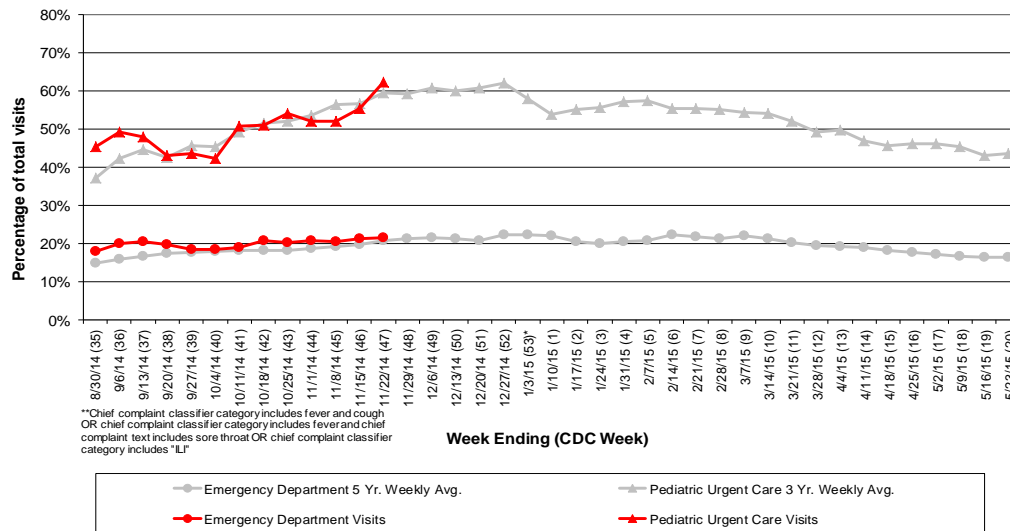
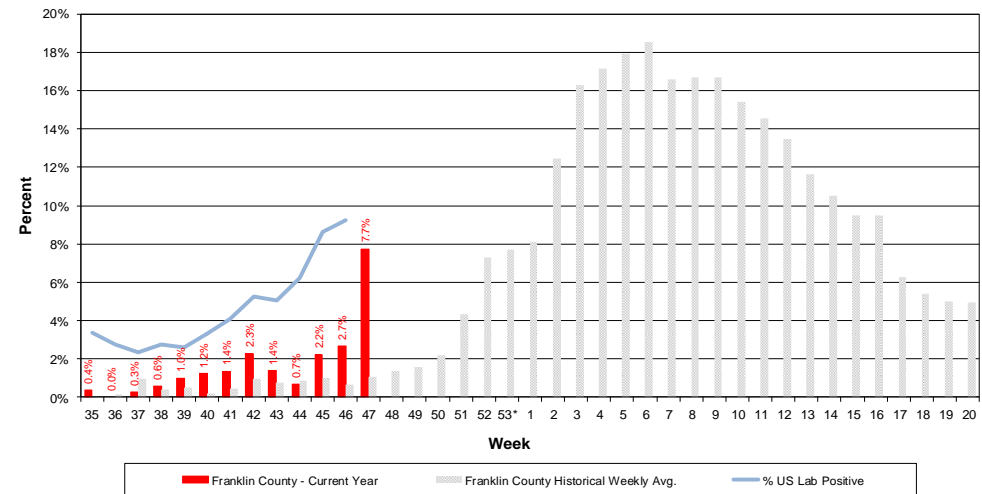


Figure 3: Franklin County Resident ILI Defined ED and Pediatric Urgent Care Visits, 2014-15, Franklin County, OH**



**Chief complaint classifier category includes fever and cough
OR chief complaint classifier category includes fever and chief complaint text includes sore throat OR chief complaint classifier category includes "ILI"

Figure 4: Percentage of Local Reporting and National Laboratory Positive Influenza Tests by Week, 2014-15



*Note: Based on CDC MMWR Weeks, there are 53 surveillance weeks in 2014. Baseline and previous year's week 53 data are based on the average of week 52 and week 1 numbers.

Columbus & Franklin County Influenza Monitoring Summary – Week 47, 2014 (11/16/2014-11/22/2014)

Figure 5: Franklin County Resident Respiratory ED and Pediatric Urgent Care Visits, 2014-15, Franklin County, OH

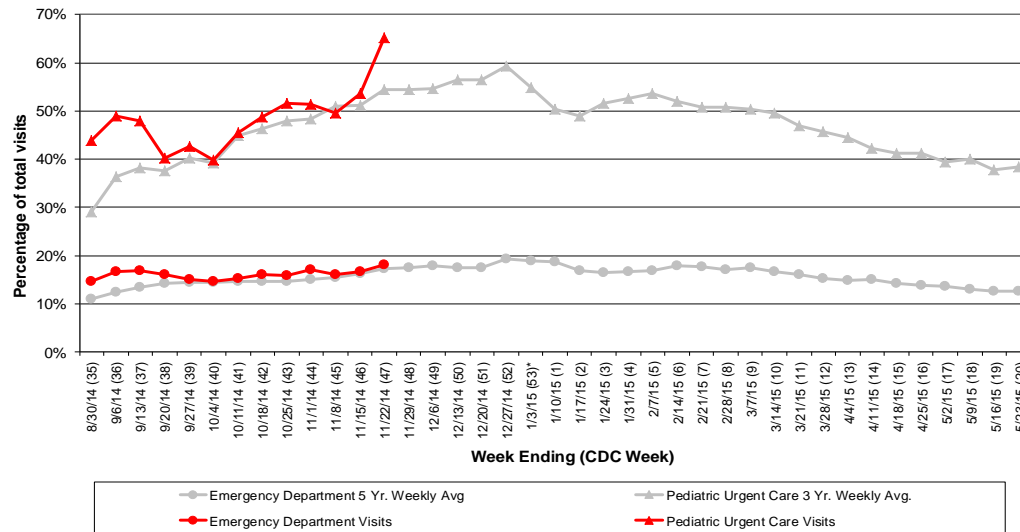


Figure 6: Selected Number of Over-the-Counter Medication Sales, 2014-15, Franklin County, OH

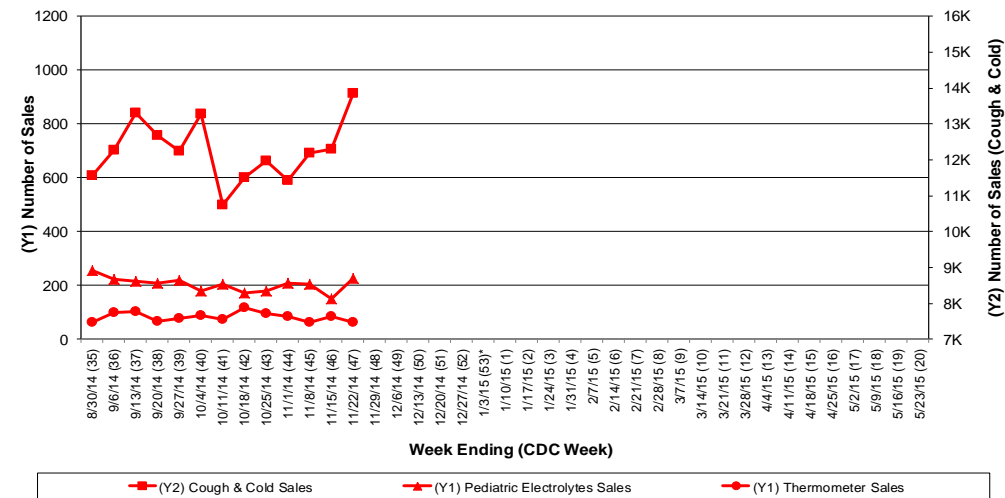
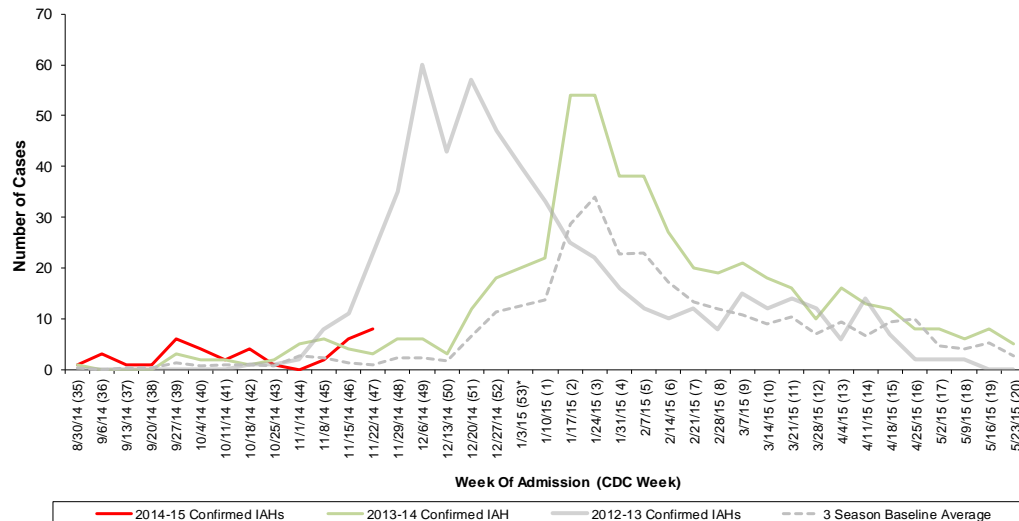
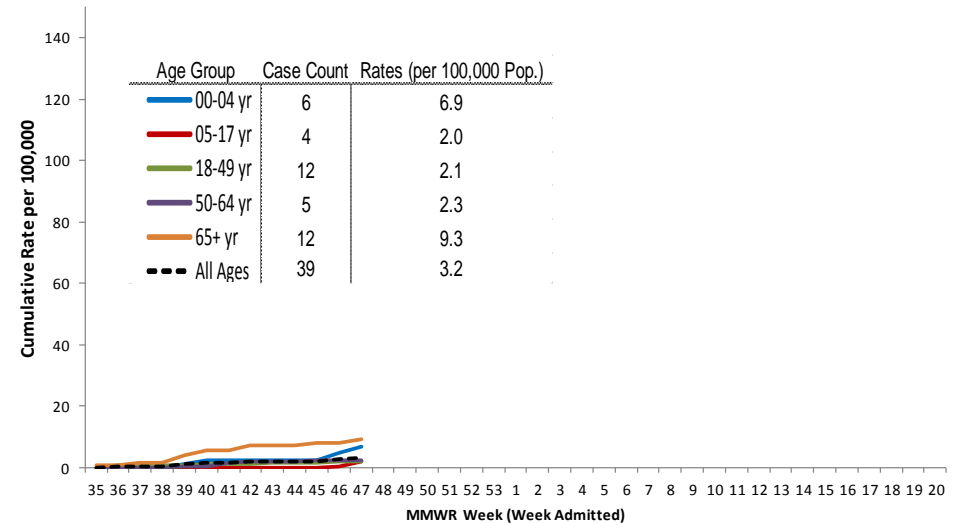


Figure 7: Franklin County Confirmed Influenza Associated Hospitalizations by Hospital Admission Week (As of 2:00 PM, 11/25/2014)



Franklin County, OH, Confirmed Influenza Hospitalization Cumulative Rates (per 100,000) by Age-Group and Admission Week, 2014-2015 Season



*Note: Based on CDC MMWR Weeks, there are 53 surveillance weeks in 2014. Baseline and previous year's week 53 data are based on the average of week 52 and week 1 numbers.